In the Claims:

Please amend claims 24, 25, 27, 30, 31 and 34. A clean version of the amended claims, and a clean version of all the pending claims follows. In addition, a marked version of the amended claims showing the changes follows the Remarks section.

CLEAN VERSION OF AMENDED CLAIMS

24. (four times amended) A semiconductor package comprising:

a substrate comprising a first surface, a second surface, a plurality of conductors and ball bonding pads on the first surface, and a bonding opening from the first surface to the second surface;

a semiconductor die having a first outline and a face on the bonding opening bonded/directly to the second surface;

a first mask on the first surface comprising a plurality of via openings aligned with the ball bonding pads;

a second mask covering the second surface except in a die attach area defined by an opening through the second mask having a second outline corresponding to but only slightly larger than the first outline;

an adhesive layer between the die and the substrate in the die attach area bonding the face to the second surface;

a plurality of wires placed through the bonding opening and wire bonded to the die and to the conductors; and

an encapsulating resin on the die and on the second mask.

25/ (four times amended) The package of claim 24 wherein the encapsulating resin comprises epoxy.

27. (four times amended) A semiconductor package comprising:

a substrate comprising a first surface, a second surface, a plurality of conductors on the first surface

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comprising ball bonding pads and wire bonding pads, and a bonding opening from the first surface to the second surface;

a semiconductor die having a first outline, the die comprising a face on the bonding opening bonded to the second surface;

a first mask on the first surface comprising a plurality of via openings aligned with the ball bonding pads and a first opening exposing the wire bonding pads;

a second mask substantially covering the second surface comprising a second opening having a second outline corresponding to but only slightly larger than the first outline to define an open die attach area on the second surface;

an adhes ve layer between the die and the substrate in the open die attach area bonding the face to the second surface;

a plurality of wires in the bonding opening wire bonded to the die and to the wire bonding pads; and

an encapsulating resin on the die and on the second mask.

30. (four times amended) A semiconductor package comprising:

a substrate having a first surface, a second surface and a bonding opening there through;

- a plurality of conductors on the first surface comprising a plurality of ball bonding pads;
- a first mask on the first surface comprising a plurality of via openings to the ball bonding pads;
- a semiconductor die having a face on the bonding opening attached directly to the second surface;
- a second mask covering the second surface except in a die attach area defined by an opening through the second mask having an outline corresponding to but only slightly larger than that of the face;

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a plurality of solder balls in the via openings bonded to the ball bonding pads;

a plurality of wires placed through the bonding opening and bonded to the die and to the conductors; and

an encapsulating resin on the second mask encapsulating the die.

- 31. (four times amended) The package of claim 30 wherein the encapsulating resin comprises epoxy.
- 34. (four times amended) A semiconductor package comprising:
- a substrate comprising a first surface, an opposing second surface and a wire bonding opening from the first surface to the second surface;
- a plurality of conductors on the first surface comprising wire bonding pads and ball bonding pads;
- a first mask on the first surface comprising a plurality of via openings aligned with the ball bonding pads and a first opening exposing the wire bonding pads;
- a semiconductor die aligned with the wire bonding opening and bonded face down to the second surface, the die having a first outline;
- a second mask substantially covering the second surface and including an opening there through having a second outline corresponding to but only slightly larger than the first outline to define an open die attach area on the second surface;
- an adhesive layer between the die and the substrate in the open die attach area bonding the die directly to the second surface;
- a plurality of wires placed through the wire bonding opening and bonded to the die and to the wire bonding pads; and
- an encapsulating resin on the second mask encapsulating the die.

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CLEAN VERSION OF ALL PENDING CLAIMS

24. (four times amended) A semiconductor package comprising:

a substrate comprising a first surface, a second surface, a plurality of conductors and ball bonding pads on the first surface, and a bonding opening from the first surface to the second surface;

a semiconductor die having a first outline and a face on the bonding opening bonded directly to the second surface;

a first mask on the first surface comprising a plurality of via openings aligned with the ball bonding pads;

a second mask covering the second surface except in a die attach area defined by an opening through the second mask having a second outline corresponding to but only slightly larger than the first outline;

an adhesive layer between the die and the substrate in the die attach area bonding the face to the second surface;

a plurality of wires placed through the bonding opening and wire bonded to the die and to the conductors; and

an encapsulating resin on the die and on the second mask.

- 25. (four times amended) The package of claim 24 wherein the encapsulating resin comprises epoxy.
- 26. (thrice amended) The package of claim 25 wherein the adhesive layer comprises a filled adhesive.
- 27. (four times amended) A semiconductor package comprising:

a substrate comprising a first surface, a second surface, a plurality of conductors on the first surface comprising ball bonding pads and wire bonding pads, and a bonding opening from the first surface to the second surface;

a semiconductor die having a first outline, the die comprising a face on the bonding opening bonded to the second surface;

a first mask on the first surface comprising a plurality of via openings aligned with the ball bonding pads and a first opening exposing the wire bonding pads;

a second mask substantially covering the second surface comprising a second opening having a second outline corresponding to but only slightly larger than the first outline to define an open die attach area on the second surface;

an adhesive layer between the die and the substrate in the open die attach area bonding the face to the second surface;

a plurality of wires in the bonding opening wire bonded to the die and to the wire bonding pads; and

an encapsulating resin on the die and on the second mask.

- 28. (thrice amended) The package of claim 27 further comprising a glob top in the bonding opening and on the first surface at least partially encapsulating the wires.
- 29. (thrice amended) The package of claim 27 wherein the first mask and the second mask comprise a photoimageable material.
- 30. (four times amended) A semiconductor package comprising:
- a substrate having a first surface, a second surface and a bonding opening there through;
- a plurality of conductors on the first surface comprising a plurality of ball bonding pads;
- a first mask on the first surface comprising a plurality of via openings to the ball bonding pads;

a semiconductor die having a face on the bonding opening attached directly to the second surface;

a second mask covering the second surface except in a die attach area defined by an opening through the second mask having an outline corresponding to but only slightly larger than that of the face;

a plurality of solder balls in the via openings bonded to the ball bonding pads;

a plurality of wires placed through the bonding opening and bonded to the die and to the conductors; and

an encapsulating resin on the second mask encapsulating the die.

- 31. (four times amended) The package of claim 30 wherein the encapsulating resin comprises epoxy.
- 32. (thrice amended) The package of claim 30 further comprising a plurality of wire bonding pads on the conductors wire bonded to the wires and a second opening in the first mask exposing the wire bonding pads.
- 33. (thrice amended) The package of claim 30 further comprising a filled adhesive layer attaching the die to the substrate in the open die attach area.
- 34. (four times amended) A semiconductor package comprising:
- a substrate comprising a first surface, an opposing second surface and a wire bonding opening from the first surface to the second surface;
- a plurality of conductors on the first surface comprising wire bonding pads and ball bonding pads;
- a first mask on the first surface comprising a plurality of via openings aligned with the ball bonding pads and a first opening exposing the wire bonding pads;

a semiconductor die aligned with the wire bonding opening and bonded face down to the second surface, the die having a first outline;

a second mask substantially covering the second surface and including an opening there through having a second outline corresponding to but only slightly larger than the first outline to define an open die attach area on the second surface:

an adhesive layer between the die and the substrate in the open die attach area bonding the die directly to the second surface;

a plurality of wires placed through the wire bonding opening and bonded to the die and to the wire bonding pads; and

an encapsulating resin on the second mask encapsulating the die.

- 35. (thrice amended) The package of claim 34 further comprising a glob top in the wire bonding opening at least partially encapsulating the wires.
- 36. (thrice amended) The package of claim 34 wherein the adhesive layer comprises a filled epoxy.